

Your Ultimate Source for OEM Repair Manuals

FactoryManuals.net is a great resource for anyone who wants to save money on repairs by doing their own work. The manuals provide detailed instructions and diagrams that make it easy to understand how to fix a vehicle.

2021 Ford F-150 Service and Repair Manual

[Go to manual page](#)

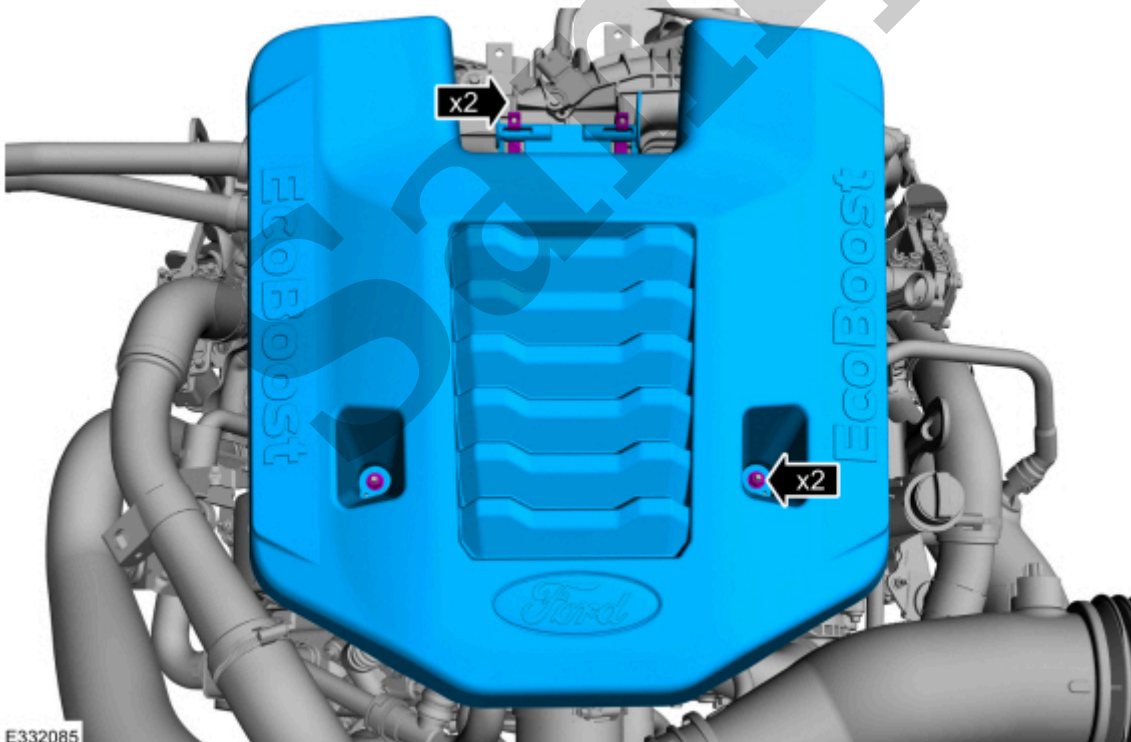
Exhaust Gas Recirculation (EGR) Cooler

303-08C Engine Emission Control - 3.5L EcoBoost (BM)	2022 F-150
Removal and Installation	Procedure revision date: 08/30/2021

Exhaust Gas Recirculation (EGR) Cooler

Removal

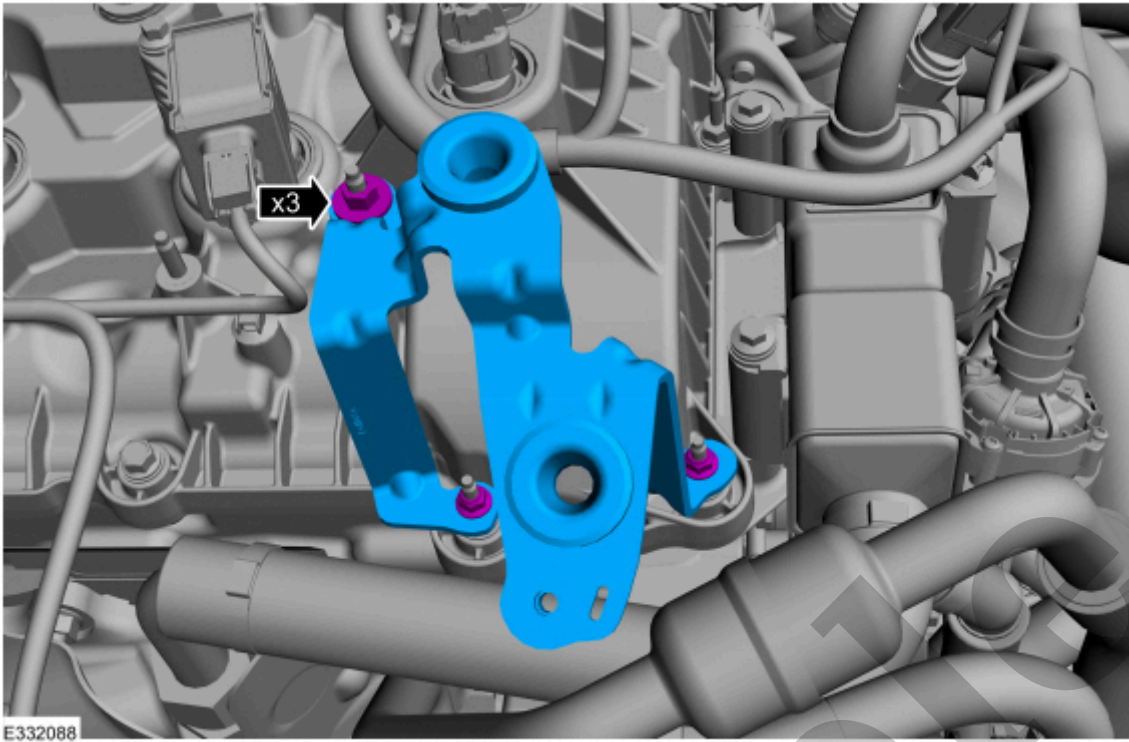
1. Remove the engine appearance cover retainers, release the engine appearance cover from the rear retainers and then remove the engine appearance cover.



E332085

[Click here to learn about symbols, color coding, and icons used in this manual.](#)

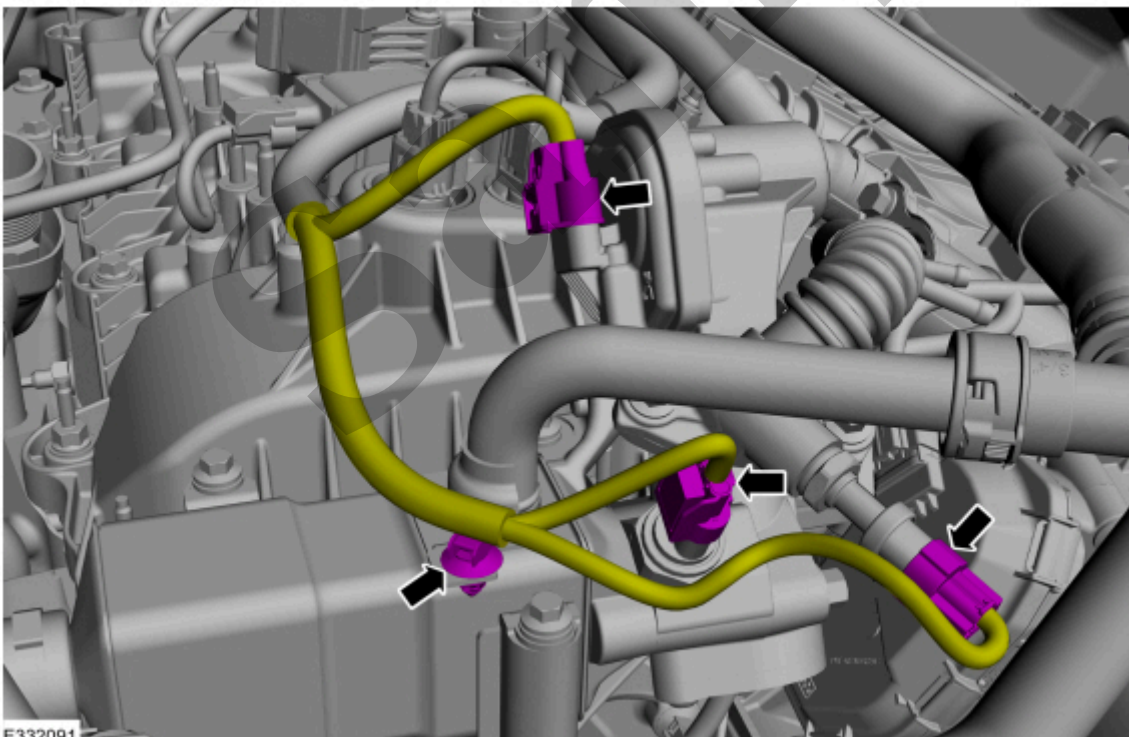
2. Remove the RH (right-hand) side air cleaner outlet pipe.



E332088

[Click here to learn about symbols, color coding, and icons used in this manual.](#)

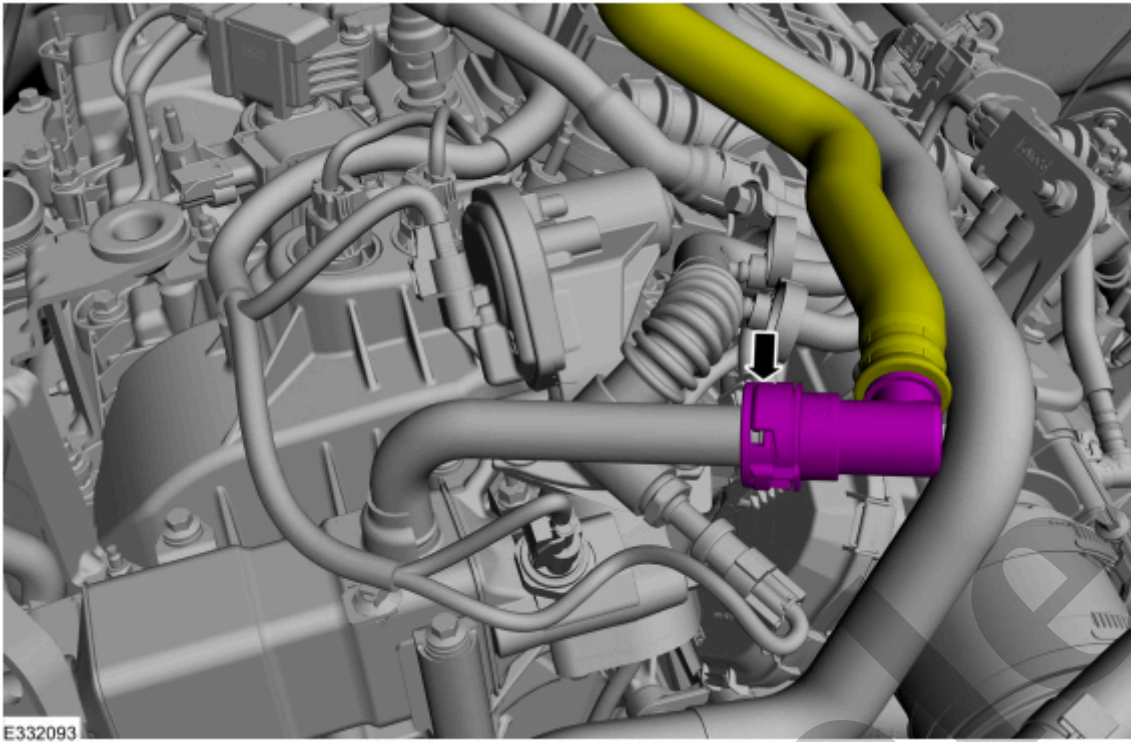
7. Disconnect the electrical connectors and wiring harness retainer. Position aside the wiring harness.



E332091

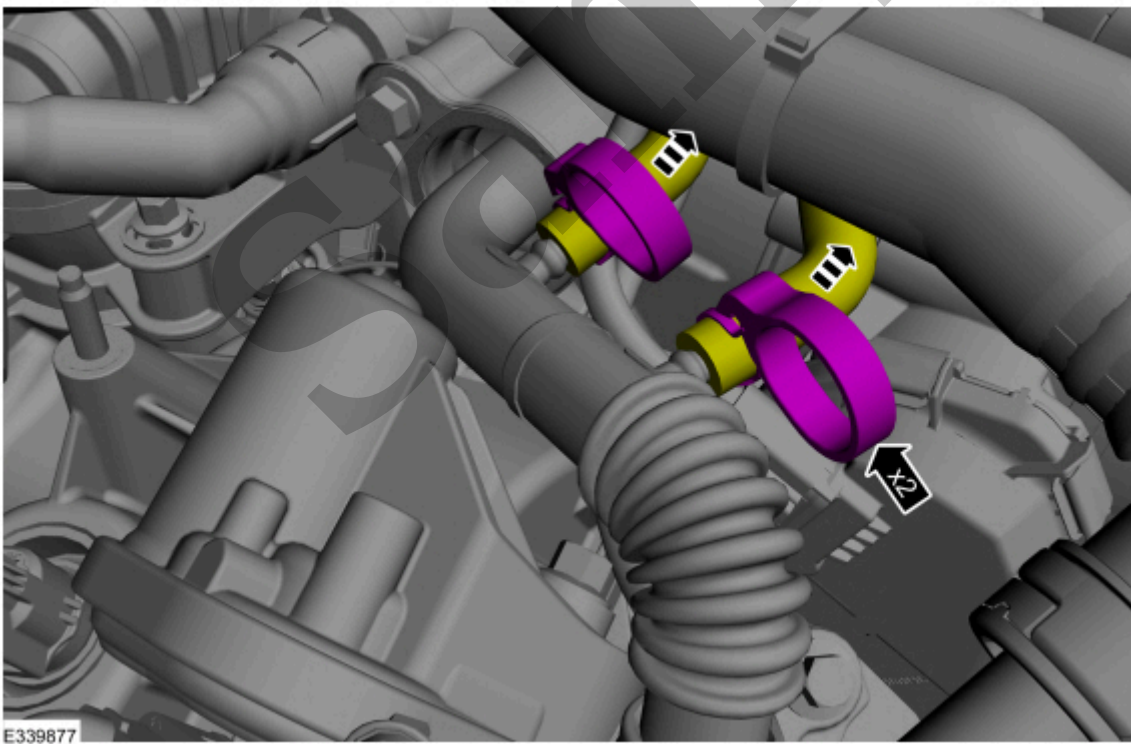
[Click here to learn about symbols, color coding, and icons used in this manual.](#)

8. Disconnect the lower coolant hose from the EGR (exhaust gas recirculation) cooler assembly.

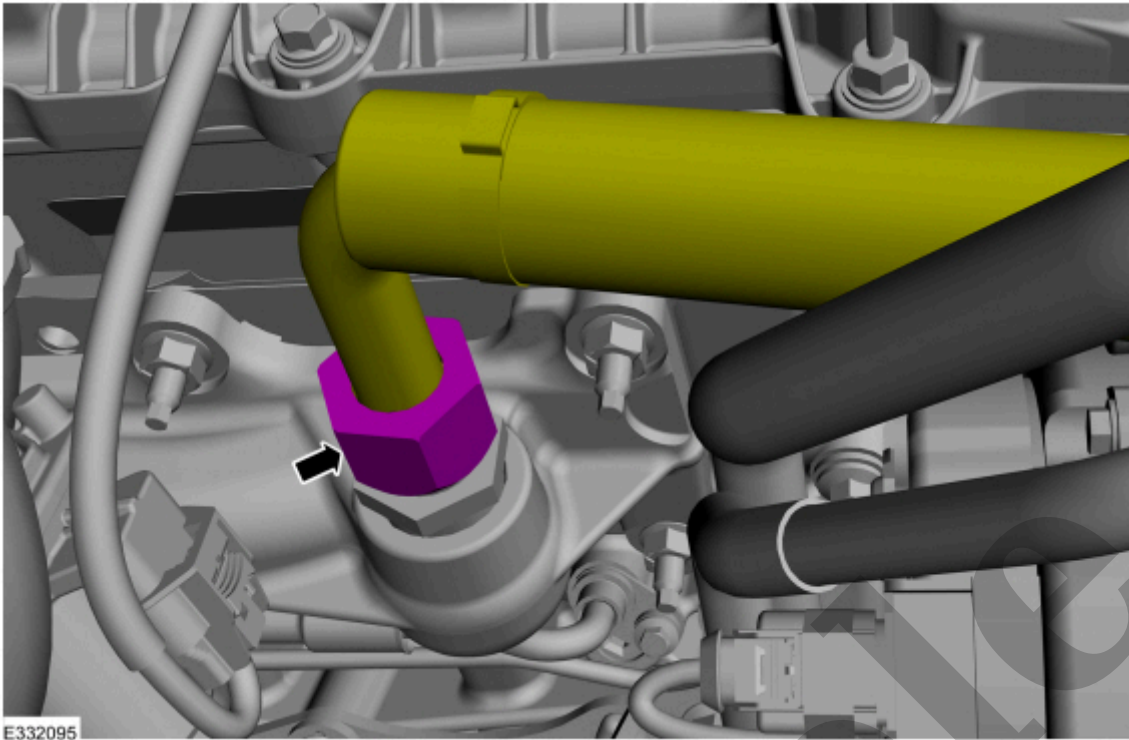


[Click here to learn about symbols, color coding, and icons used in this manual.](#)

10. Loosen the clamps and disconnect the differential pressure sensor hoses.

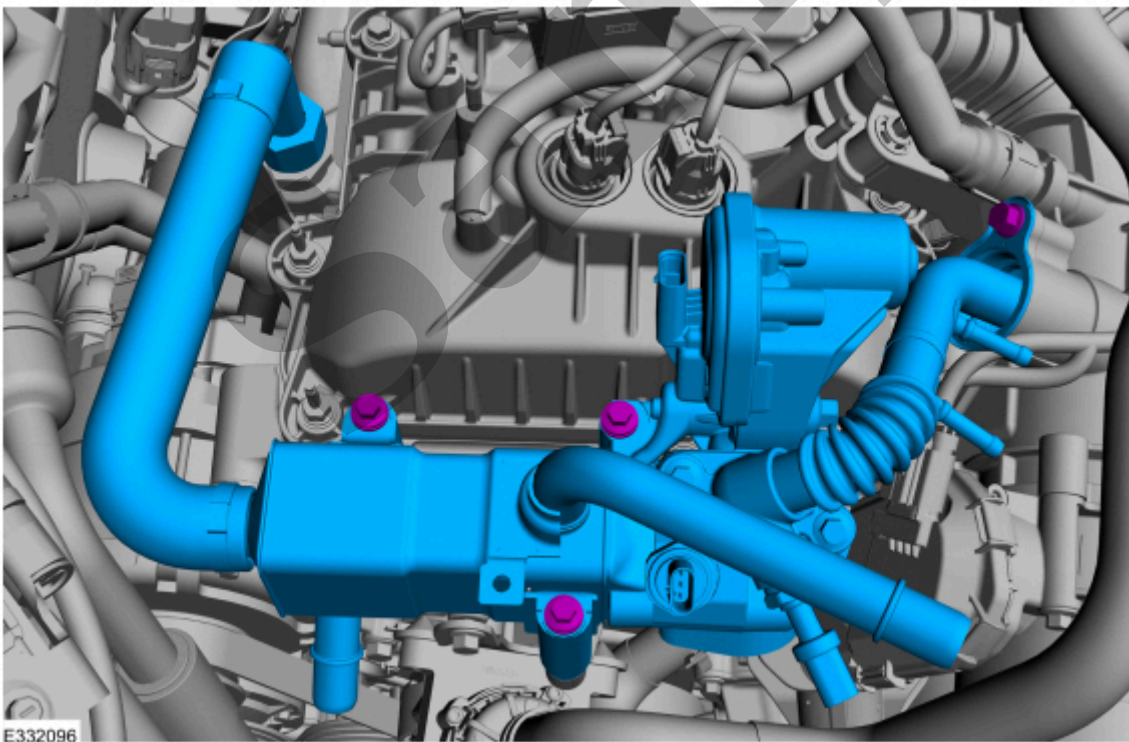


[Click here to learn about symbols, color coding, and icons used in this manual.](#)



[Click here to learn about symbols, color coding, and icons used in this manual.](#)

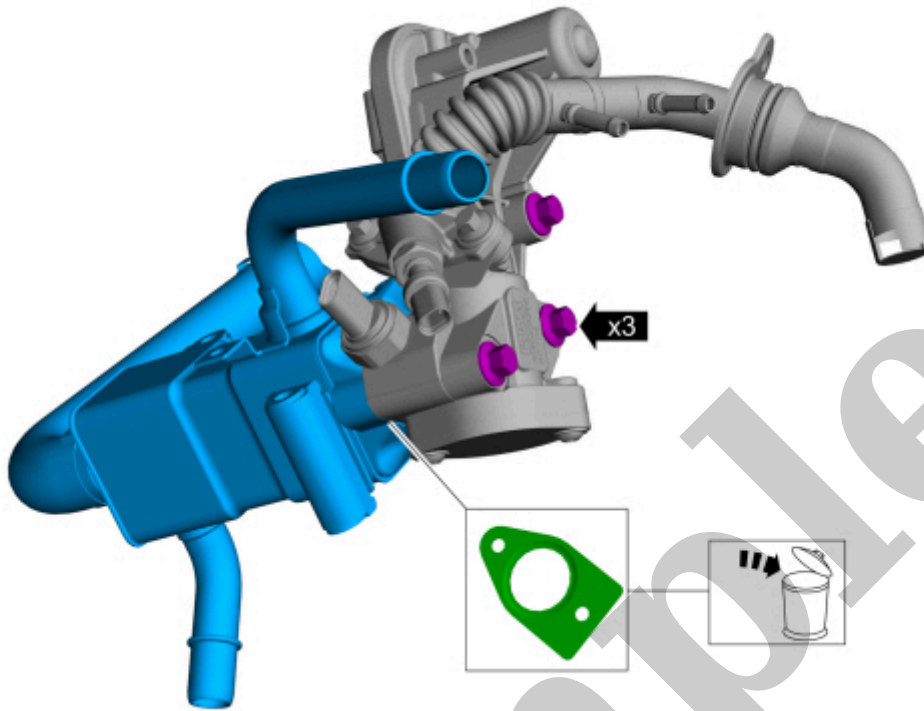
13. Remove the EGR (exhaust gas recirculation) assembly.



[Click here to learn about symbols, color coding, and icons used in this manual.](#)

14. Remove and discard the EGR (exhaust gas recirculation) to exhaust manifold connector.

16.
 - Remove the bolts and EGR (exhaust gas recirculation) cooler assembly.
 - Remove and discard the EGR (exhaust gas recirculation) valve gasket.



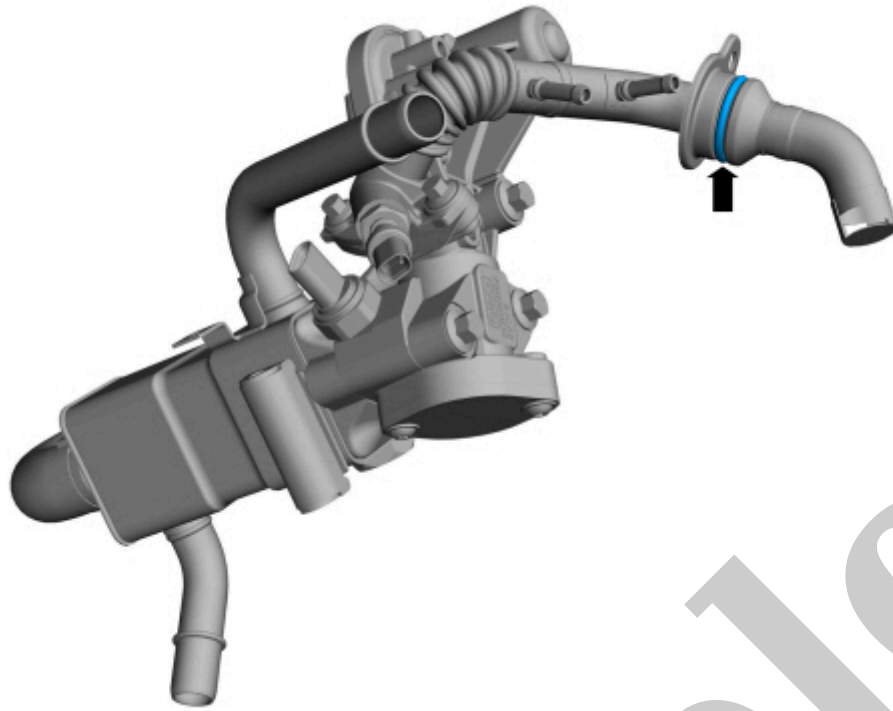
E332099

[Click here to learn about symbols, color coding, and icons used in this manual.](#)

Installation

1.
 - Install the EGR (exhaust gas recirculation) valve gasket.
 - Install the EGR (exhaust gas recirculation) cooler assembly.

Torque : 22 lb.ft (30 Nm)



E332098

[Click here to learn about symbols, color coding, and icons used in this manual.](#)

3. NOTE

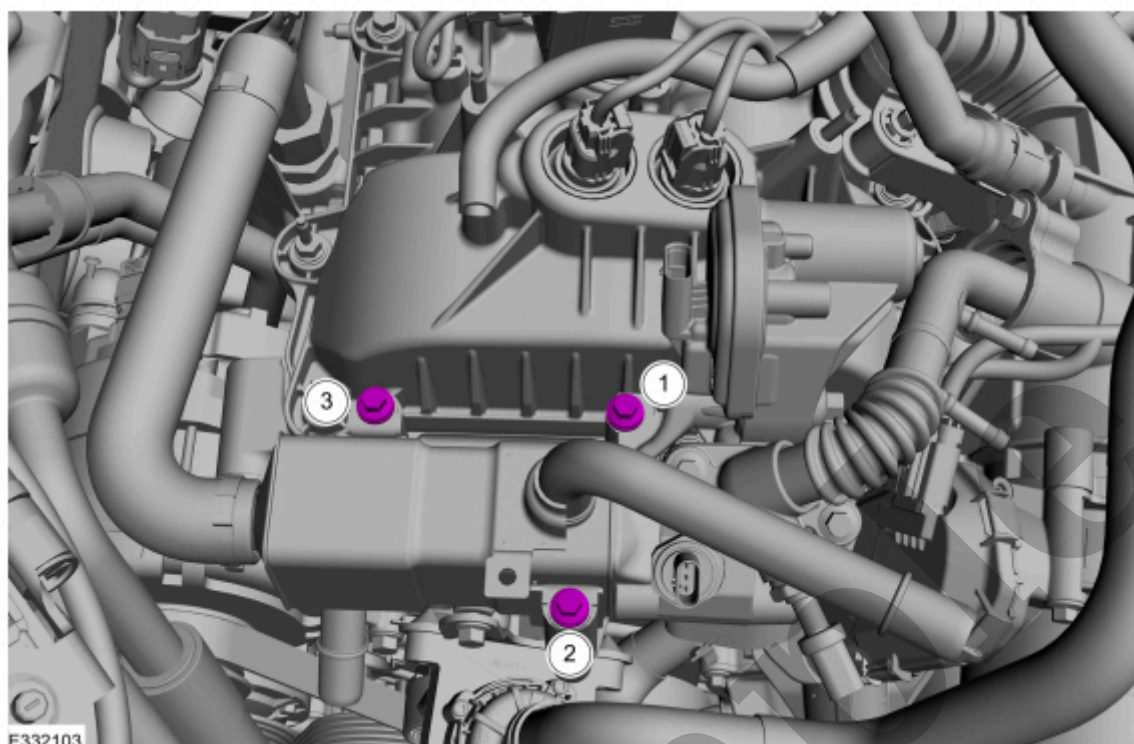
The new EGR (exhaust gas recirculation) to exhaust manifold connector comes with lubricant, no lubricant needs to be applied.

Install the new EGR (exhaust gas recirculation) to exhaust manifold connector.

Torque : 125 lb.ft (170 Nm)

[Click here to learn about symbols, color coding, and icons used in this manual.](#)

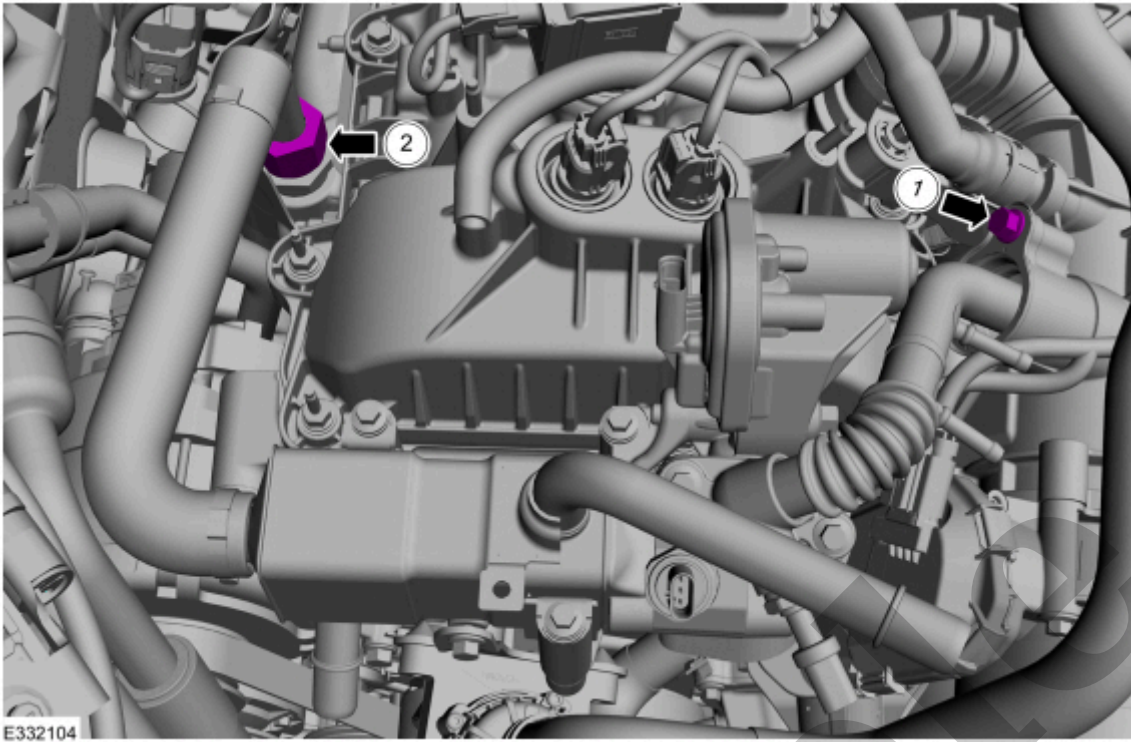
5. Install the EGR (exhaust gas recirculation) cooler fasteners and hand tighten at this stage.



[Click here to learn about symbols, color coding, and icons used in this manual.](#)

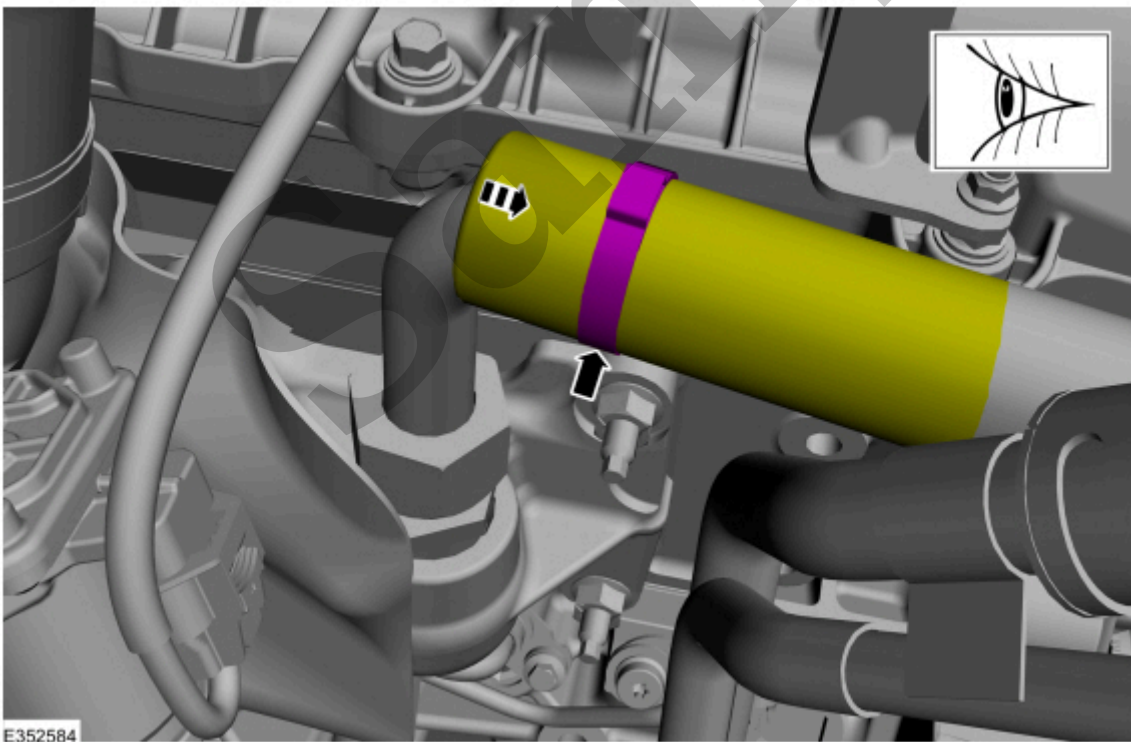
6. Tighten the EGR (exhaust gas recirculation) cooler fasteners as per the sequence.

Torque : 89 lb.in (10 Nm)



[Click here to learn about symbols, color coding, and icons used in this manual.](#)

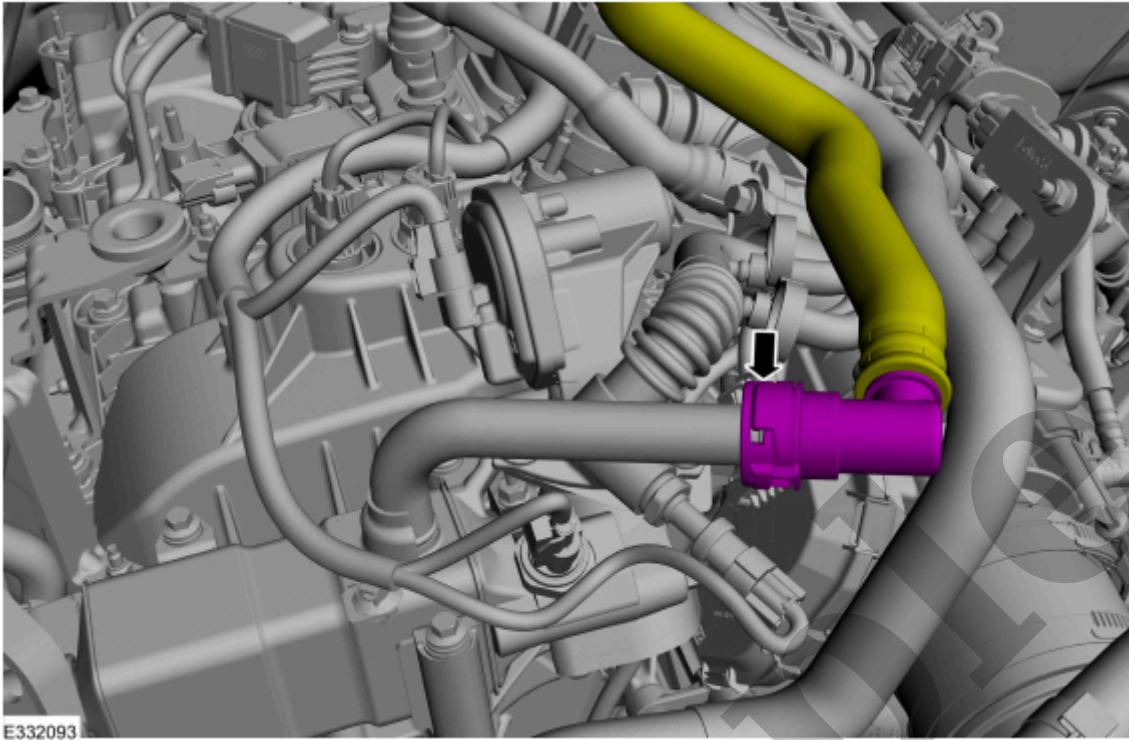
8. Pull back heat sleeve to visually inspect hot tube for any twisting.



[Click here to learn about symbols, color coding, and icons used in this manual.](#)

9. Position back the heat shield.

Refer to: [Quick Release Coupling](#)(310-00C Fuel System - General Information - 3.5L EcoBoost (BM), General Procedures).



[Click here to learn about symbols, color coding, and icons used in this manual.](#)

12. Connect the lower coolant hose to the EGR (exhaust gas recirculation) cooler assembly.

Refer to: [Quick Release Coupling](#)(310-00C Fuel System - General Information - 3.5L EcoBoost (BM), General Procedures).